

CLAIMS:

1. A room temperature curable organopolysiloxane composition for molding purposes, comprising:
  - (a) 100 parts by weight of an organopolysiloxane represented by a general formula (I):
$$\begin{array}{c} \text{R}^3 \\ | \\ \text{HO}-\text{SiO}_n-\text{H} \\ | \\ \text{R}^3 \end{array} \quad (1)$$
wherein,  $\text{R}^3$  groups are identical or different and represent either one of an unsubstituted and a substituted monovalent hydrocarbon group, and  $n$  represents an integer of at least 2,
  - (b) 0.5 to 20 parts by weight of a compound selected from a group consisting of organosilanes comprising at least three hydrolyzable groups bonded to silicon atoms within a single molecule, and organosiloxanes comprising at least three hydrolyzable groups bonded to silicon atoms within a single molecule,
  - (c) 0.1 to 20 parts by weight of an organic compound incorporating at least one sulfur atom in a single molecule (but excluding sterically hindered thiobisphenols, substituted zinc dithiophosphates, sulfides represented by the formula:  $\text{R}-\text{S}_q-\text{R}'$  wherein  $\text{R}$  and  $\text{R}'$  are each a monovalent hydrocarbon group with at least three carbon atoms having or not having an ester bond or  $\text{R}$  and  $\text{R}'$  together form a ring and  $q$  is an integer of 1 to 3, compounds containing a sulfide structure represented by the formula:  $\text{R}-\text{S}_q-\text{R}''$  wherein  $\text{R}$  and  $q$  are as defined above, and  $\text{R}''$  is a bivalent hydrocarbon group having at least three carbon atoms and having or not having an ester bond, or  $\text{R}$  and  $\text{R}''$  together form a ring, said  $\text{R}''$  being connected to a quaternary carbon atom, and silicone polysulfides represented by a structural formula  $\text{S}_a-(\text{R}^1-\text{Si}(\text{OR}^2)_3)_2$  wherein  $\text{R}^1$  represents a bivalent hydrocarbon group of 2 to 8 carbon atoms, each  $\text{R}^2$  represents a monovalent hydrocarbon group of 1 to 40 carbon atoms, and  $a$  represents an integer from 2 to 7), and
  - (d) an effective quantity of a curing catalyst.
2. The composition according to claim 1, wherein in said general formula (1) representing said constituent (a), each  $\text{R}^3$  represents, independently, any one of an alkyl

group, an alkenyl group, a cycloalkyl group, an aryl group, an aralkyl group, and a halogen substituted alkyl group.

3. The composition according to claim 1, wherein in said general formula (1) representing said constituent (a), n represents an integer with an average value of 100 to 1000.

4. The composition according to claim 1, wherein said hydrolyzable groups of said constituent (b) are any one of alkoxy groups, acyloxy groups, alkenyloxy groups, iminoxy groups, amino groups, amide groups and aminoxy groups.

5. The composition according to claim 1, wherein said organic compound incorporating a sulfur atom of said constituent (c) is selected from the group consisting of sulfides, thiol compounds, monothiocarboxylate esters, thiophene carboxylate esters and sulfur containing cyclic compounds.

6. The composition according to claim 1, wherein said constituent (d) is any one of a metal salt of an organic acid, a titanate ester, a titanium chelate compound, and a mixture thereof.

7. The composition according to claim 1, wherein for 100 parts by weight of said constituent (a) there exist 1 to 10 parts by weight of said constituent (b), 0.5 to 10 parts by weight of said constituent (c), and 0.1 to 5 parts by weight of said constituent (d).

8. The composition according to claim 1, wherein said organic compound incorporating at least one sulfur atom of said constituent (c) is benzothiazoyl disulfide, tetraethylthiuram disulfide, dimethyl xanthogen disulfide, dipentamethylenethiuram tetrasulfide, a thiol compound, a thioglycolate ester, a mercaptopropionate ester, a thiophene carboxylate ester, a sulfur containing cyclic compound, or a combination of two or more compounds thereof.

9. The composition according to claim 8, wherein said organic compound incorporating at least one sulfur atom of said constituent (c) is a thiol compound, and the thiol

compound is 2-mercaptopnaphthalene, octadecane thiol, 2,2'-(ethylenedithio)diethane thiol or a combination of two or more thereof.

10. The composition according to claim 8, wherein said organic compound incorporating at least one sulfur atom of said constituent (c) is a thioglycolate ester, and the thioglycolate ester is octyl thioglycolate, dibutyl tin bisoctyl thioglycolate, dioctyl tin bisisoctyl thioglycolate, trimethylopropane tristhioglycolate, pentaerythritol tetrakis thioglycolate, or a combination of two or more thereof.

11. The composition according to claim 8, wherein said organic compound incorporating at least one sulfur atom of said constituent (c) is a mercaptopropionate ester, and the mercaptopropionate ester is octyl-3-mercaptopropionate, dibutyl tin bisnonyl-3-mercaptopropionate, or a combination of two or more thereof.

12. The composition according to claim 8, wherein said organic compound incorporating at least one sulfur atom of said constituent (c) is a thiophene carboxylate ester, and the thiophene carboxylate ester is a thiophene-2-carboxylate ester, a thiophene-3-carboxylate ester, or a combination of two or more thereof.

13. The composition according to claim 8, wherein said organic compound incorporating at least one sulfur atom of said constituent (c) is a sulfur containing cyclic compound, and the sulfur containing cyclic compound is 2-(4-morpholinylidithio)benzothiazol.